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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	09/872,183
Filing Date	May 31, 2000
First Named Inventor	Melissa K. Carpenter
Group Art Unit	To be determined
Examiner Name	To be determined
Attorney Docket Number	094/004

Total Number of Pages in This Submission

ENCLOSURES (check all that apply)

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PTO Form 1449; References (40) |
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Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm
or
Individual name

J. Michael Schiff, Registration No. 40,253

Signature

Date

November 30, 2001

CERTIFICATE OF MAILING

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of: Carpenter et al.

Serial No.: 09/872,183

Filing Date: May 31, 2001

For: NEURAL PROGENITOR CELL
POPULATIONS

Art Unit: TBD

Examiner: TBD

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

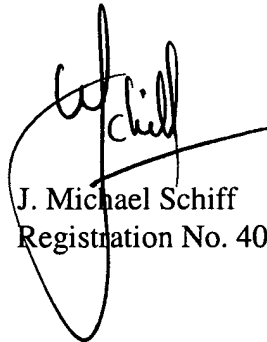
Dear Sir:

The information listed in the accompanying form PTO-1449 and provided herewith may be material to examination of this application and is submitted in compliance with the duty of disclosure under 37 CFR § 1.56. The Examiner is requested to make this information of record in the application.

This Information Disclosure Statement is not to be construed as a representation that a full search for relevant information has been made, that all relevant information has been found, or that the information provided with this Statement is considered to be material to patentability of the claimed invention as defined under 37 CFR § 1.56(b).

It is believed that no fee is required for submission of this Statement, which is filed before the first Office Action on the merits of the application. Nevertheless, should a fee be required for consideration of this Statement and the listed information, the Assistant Commissioner is authorized to charge such fee to Deposit Account No. 07-1139, referencing the attorney Docket Number indicated above.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "J. Michael Schiff", is written over a large, loopy circular flourish.

J. Michael Schiff
Registration No. 40,253

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Date: November 28, 2001

Form 1449 (modified)	Docket: 094/004	U.S.S.N. To Be Assigned
Information Disclosure Statement By Applicant	Title: Neural Progenitor Cell Populations Inventors: Melissa K. Carpenter	TECH CENTER 1600/2900 01 DEC -3 PM 12:59
(Use Several Sheets if Necessary)	Filing Date: May 31, 2001	Group: To Be Assigned

U.S. Patent Documents

Examiner Initial	Ref.	Patent No.	Filing Date	Issue Date	Class/ Subclass	Inventors:	Title:
	A	5,639,618	May 13/94	Jun 17/97	435/7.21	Gay DA	Method of Isolating a Lineage Specific Stem Cell In Vitro
	B	5,672,499	Jun 7/95	Sep 30/97	435/240.4	Anderson D et al.	Immortalized Neural Crest Stem Cells and Methods of Making
	C	5,698,829	Sep 5/97	Oct 19/99	435/467	Carpenter M	Human CNS Neural Stem Cells
	D	5,766,948	Nov 3/93	Jun 16/98	435/368	Gage FH et al.	Method for Production of Neuroblasts
	E	5,849,553	Jun 7/95	Dec 15/98	435/172.3	Anderson DJ et al.	Mammalian Multipotent Neural Stem Cells
	F	5,851,832	Jun 7/95	Dec 22/98	435/368	Weiss S. et al.	In Vitro Growth and Proliferation of Multipotent Neural Stem Cells and Their Progeny
	G	5,968,829	Sep 5/97	Oct 19/99	435/467	Carpenter M	Human CNS Neural Stem Cells
	H	5,981,165	Jun 7/95	Nov 9/99	435/4	Weiss S et al.	In Vitro Induction of Dopaminergic Cells
	I	6,040,180	May 7/97	Mar 21/00	435/377	Johe KK	In Vitro Generation of Differentiated Neurons From Cultures of Mammalian Multipotent CNS Stem Cells
	J	6,238,922	Feb 26/99	May 29/01	435/380	Uchida N	Use of Collagenase in the Preparation of Neural Stem Cell Cultures

Foreign Patent or Published Foreign Patent Application

Examiner Initial	Ref.	Document No.	Publ. Date	Jurisdiction	Title:	Translation	
						Yes	No
	K	WO 98/50526	Nov 12/98	PCT	Generation, Characterization, and Isolation of Neuroepithelial Stem Cells and Lineage Restricted Intermediate Precursor		
	L	WO 99/01159	Jan 14/99	PCT	Lineage-Restricted Neuronal Precursors		
	M	WO 99/04775	Feb 4/99	PCT	Method of Treating Dopaminergic and Gaba-Nergic Disorders		
	N	WO 00/17323	Mar 30/00	PCT	Stable Neural Stem Cell Lines		
	O	WO 00/47762	Aug 17/00	PCT	Enriched Central Nervous System Stem Cell and Progenitor Cell Populations, and Methods for Identifying, Isolating and Enriching for Such Populations		
	P	WO 01/68815	Sep 20/01	PCT	Embryonic Stem Cells and Neural Progenitor Cells Derived Therefrom		

Examiner	Date Considered

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(Use Several Sheets if Necessary)	Filing Date: May 31, 2001	Group: To Be Assigned

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Other Documents

Examiner Initial	Ref.	Author, Title, Date, Source
	Q	Andrews, et al., Retinoic Acid Induces Neuronal Differentiation of a Cloned Human Embryonal Carcinoma Cell Line in Vitro, Dev. Biol. 103:285 (1984)
	R	Bain, et al., Embryonic Stem Cells Express Neuronal Properties in Vitro, Dev. Biol. 168:342 (1995)
	S	Bain, et al., Retinoic Acid Promotes Neural and Represses Mesodermal Gene Expression in Mouse Embryonic Stem Cells in Culture, Chem. and Biophys. Res. Comm. 223:691 (1996)
	T	Bain, et al., Neural Cells Derived by In Vitro Differentiation of P19 and Embryonic Stem Cells, Perspectives Dev. Neurobio. 5:175 (1998)
	U	Bodnar, et al., Extension of Life-span by Introduction of Telomerase into Normal Human Cells, Science 279:349 (1998)
	V	Brustle, et al., In Vitro-Generated Neural Precursors Participate in Mammalian Brain Development, Proc. Natl. Acad. Sci. USA 94:14809 (1997)
	W	Brustle, et al., Embryonic Stem Cell-Derived Glial Precursors: A Source of Myelinating Transplants, Science 285:754 (1999)
	X	Clarke, et al., Generalized Potential of Adult Neural Stem Cells, Science 288:1660 (2000)
	Y	Deacon, et al., Blastula-Stage Stem Cells Can Differentiate into Dopaminergic and Serotonergic Neurons after Transplantation, Exp. Neurol. 149:28 (1998)
	Z	Fraichard, et al., In Vitro Differentiation of Embryonic Stem Cells into Glial Cells and Functional Neurons, J. Cell Science 108:3181 (1995)
	AA	Kalyani, et al., Cell Lineage in the Developing Neural Tube, Biochem. Cell Biol. 76:1051 (1998)
	AB	Lee, et al., Efficient Generation of Midbrain and Hindbrain Neurons from Mouse Embryonic Stem Cells, Nat. Biotechnol. 18:675 (2000)
	AC	Li, et al., Generation of Purified Neural Precursors from Embryonic Stem Cells by Lineage Selection, Current Biology 8:971
	AD	Ling, et al., Differentiation of Mesencephalic Progenitor Cells into Dopaminergic Neurons by Cytokines, Exp. Neurol. 149:411 (1998)
	AE	Liu, et al., Embryonic Stem Cells Differentiate into Oligodendrocytes and Myelinate in Culture and After Spinal Cord Transplantation, PNAS 97:6126 (2000)
	AF	Mayer-Prosche, et al., Isolation of Lineage-Restricted Neuronal Precursors from Multipotent Neuroepithelial Stem Cells, Neuron 19:773 (1997)
	AG	McDonald, et al., Transplanted Embryonic Stem Cells Survive, Differentiate and Promote Recovery in Injured Rat Spinal Cord, Nat. Med. 5:1410 (1999)
	AH	Mujtaba, et al., Lineage-Restricted Neural Precursors Can Be Isolated from Both the Mouse Neural Tube and Cultured ES Cells, Dev. Biol. 214:113 (1999)
	AI	Okabe, et al., Development of Neuronal Precursor Cells and Functional Postmitotic Neurons from Embryonic Stem Cells in Vitro, Mechanisms of Dev. 59:89 (1996)
	AJ	Reubinoff, et al., Embryonic Stem Cell Lines From Human Blastocysts: Somatic Differentiation In Vitro, Nature Biotechnol. 18:399 (2000)
	AK	Shamblott, et al., Derivation of Pluripotent Stem Cells From Cultured Human Primordial Germ Cells, Proc. Natl. Acad. Sci. USA 95:13726 (1998)
	AL	Strubing, et al., Differentiation of Pluripotent Embryonic Stem Cells into the Neuronal Lineage in Vitro Gives Rise to Mature Inhibitory and Excitatory Neurons, Mechanisms of Dev. 53:275 (1995)
	AM	Thomson, et al., Neural Differentiation of Rhesus Embryonic Stem Cells, APMIS 106:149 (1998)

Examiner	Date Considered

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	AN	Thomson, et al., Embryonic Stem Cell Lines Derived from Human Blastocysts, Science 282:1145 (1998)
	AO	Tropepe, et al., Autonomous Neural Cell Fate Specification in Mouse Embryonic Stem Cells – Abstract, Society for Neuroscience 25:527 (1999)
	AP	van Inzen, et al., Neuronal Differentiation of Embryonic Stem Cells, Biochimica et Biophysica Acta 1312:21 (1996)
	AQ	Wagner, et al., Induction of a Midbrain Dopaminergic Phenotype in Nurr1-overexpressing Neural Stem Cells by Type 1 Astrocytes, Nature Biotechnol. 17:653 (1999)
	AR	Yao, et al., Neuronal Differentiation of P19 Embryonal Carcinoma cells in Defined Media, J. Neuroscience Res. 41:792 (1995)
	AS	Neural Implant Technologies, NeuroInvestment (Dec. 1999)

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